

Chapter Ten: Contents

(RS-7 – 15 October 2001 – LA-UR 01-5716 – Portland Study Reports)

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Chapter Ten—RS-7

NOTE: Long code lines that do not fit completely on one line of this document are shown in italics and continued on to the next line.

1. CONFIGURATION FILES

1.1 allstr_router_RS7.cfg

```

TRANSIMS_ROOT           /home/transims/CaseStudy3/scenarios/allstr

PLAN_FILE               $TRANSIMS_ROOT/plans/RS7/RS7
VEHICLE_FILE            $TRANSIMS_ROOT/vehicle/vehicles.pop
VEHICLE_PROTOTYPE_FILE $TRANSIMS_ROOT/data/allstr.prototypes.short

ROUTER_HOUSEHOLD_FILE   $TRANSIMS_ROOT/router/hh
ROUTER_COMPLETED_HOUSEHOLD_FILE $TRANSIMS_ROOT/router/hh.done
ROUTER_PROBLEM_FILE     $TRANSIMS_ROOT/router/problems
ACTIVITY_FILE           $TRANSIMS_ROOT/activity/AS7
MODE_MAP_FILE           $TRANSIMS_ROOT/data/allstr.modes

NET_DIRECTORY           $TRANSIMS_ROOT/network/
NET_NODE_TABLE          Node.tbl
# NET_LINK_TABLE         Link.tbl.some_lengths_fixed
NET_LINK_TABLE          Link.tbl
NET_POCKET_LANE_TABLE   Pocket_Lane.tbl
NET_PARKING_TABLE        Parking.tbl
NET_LANE_CONNECTIVITY_TABLE Lane_Connectivity.tbl
NET_UNSIGNALIZED_NODE_TABLE Unsignalized_Node.tbl
NET_SIGNALIZED_NODE_TABLE Signalized_Node.tbl
NET_PHASEMING_PLAN_TABLE Phasing_Plan.20010718.tbl
NET_TIMING_PLAN_TABLE   Timing_Plan.tbl
NET_SPEED_TABLE          Speed.tbl
NET_LANE_USE_TABLE        Lane_Use.tbl
NET_TRANSIT_STOP_TABLE   Transit_Stop.tbl
NET_SIGNAL_COORDINATOR_TABLE Signal_Coordinator.tbl
NET_DETECTOR_TABLE        Detector.tbl
NET_TURN_PROHIBITION_TABLE Turn_Prohibition.tbl
NET_BARRIER_TABLE          Barrier.tbl
NET_ACTIVITY_LOCATION_TABLE Activity_Location.tbl
NET_PROCESS_LINK_TABLE    Process_Link.tbl

ROUTER_INTERNAL_PLAN_SIZE 2000
ROUTER_MESSAGE_LEVEL      4
ROUTER_OVERDO              0.0

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ROUTER_NUMBER_THREADS          2
ROUTER_GET_ON_TRANSIT_DELAY   120
ROUTER_GET_OFF_TRANSIT_DELAY  10
ROUTER_DELAY_NOISE            0.15
ROUTER_SEED                   1234
# Three hours, in sceonds
ROUTER_MAX_LEG_LENGTH         10800

TRANSIT_ROUTE_FILE             $TRANSIMS_ROOT/network/Transit_Route.tbl
TRANSIT_SCHEDULE_FILE           $TRANSIMS_ROOT/network/Transit_Schedule.tbl

OUT_DIRECTORY                  $TRANSIMS_ROOT/MS8R
OUT_NODES_DEFAULT               $TRANSIMS_ROOT/data/allstr.nodes
OUT_LINKS_DEFAULT                $TRANSIMS_ROOT/data/allstr.links
OUT_BEGIN_TIME_DEFAULT          21600 # 0600
OUT_END_TIME_DEFAULT            32400 # 0900

OUT_SNAPSHOT_NAME_1              snapshot.am
OUT_SNAPSHOT_TYPE_1              VEHICLE; INTERSECTION
OUT_SNAPSHOT_BEGIN_TIME_1        0      # Midnight
OUT_SNAPSHOT_END_TIME_1          43200 # NOON
OUT_SNAPSHOT_TIME_STEP_1         900

OUT_SNAPSHOT_NAME_2              snapshot.pm
#OUT_SNAPSHOT_TYPE_2             VEHICLE
OUT_SNAPSHOT_BEGIN_TIME_2        43200 # NOON
OUT_SNAPSHOT_END_TIME_2          75600 # 9 PM
OUT_SNAPSHOT_TIME_STEP_2         900

OUT_SNAPSHOT_NAME_3              busmall.snapshot
OUT_SNAPSHOT_TYPE_3              VEHICLE
OUT_SNAPSHOT_BEGIN_TIME_3        25200 # 7 AM
OUT_SNAPSHOT_END_TIME_3          32400 # 9 AM
OUT_SNAPSHOT_TIME_STEP_3         1
OUT_SNAPSHOT_LINKS_3             $TRANSIMS_ROOT/data/busmall_links.txt

OUT_SNAPSHOT_NAME_4              snapshot.signals
# OUT_SNAPSHOT_TYPE_4             SIGNAL
OUT_SNAPSHOT_TIME_STEP_4         1
OUT_SNAPSHOT_BEGIN_TIME_4        21600 # 6 AM
OUT_SNAPSHOT_END_TIME_4          23400 # 6:30 AM
# OUT_SNAPSHOT_FILTER_4           NODE < 32500
OUT_SNAPSHOT_LINKS_4             $TRANSIMS_ROOT/data/signal.links
OUT_SNAPSHOT_NODES_4             $TRANSIMS_ROOT/data/signal.nodes

OUT_SNAPSHOT_NAME_5              snapshot.12to4pm
OUT_SNAPSHOT_TYPE_5              VEHICLE
OUT_SNAPSHOT_BEGIN_TIME_5        43200 # noon
OUT_SNAPSHOT_END_TIME_5          57600 # 4 PM
OUT_SNAPSHOT_TIME_STEP_5         900

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```

OUT_SNAPSHOT_NAME_6           snapshot.4to8pm
OUT_SNAPSHOT_TYPE_6           VEHICLE
OUT_SNAPSHOT_BEGIN_TIME_6     57600  # 4 PM
OUT_SNAPSHOT_END_TIME_6       72000  # 8 PM
OUT_SNAPSHOT_TIME_STEP_6      900

OUT_SNAPSHOT_NAME_7           snapshot.8to9pm
OUT_SNAPSHOT_TYPE_7           VEHICLE
OUT_SNAPSHOT_BEGIN_TIME_7     72000  # 8 PM
OUT_SNAPSHOT_END_TIME_7       75600  # 9 PM
OUT_SNAPSHOT_TIME_STEP_7      900

OUT_SUMMARY_VELOCITY_BINS_DEFAULT    5
OUT_SUMMARY_VELOCITY_MAX_DEFAULT     37.5
OUT_SUMMARY_ENERGY_BINS_DEFAULT     7
OUT_SUMMARY_ENERGY_MAX_DEFAULT      105
OUT_SUMMARY_TIME_STEP_DEFAULT       3600
OUT_SUMMARY_SAMPLE_TIME_DEFAULT     1
OUT_SUMMARY_BOX_LENGTH_DEFAULT      30

OUT_SUMMARY_NAME_1              summary.no
# OUT_SUMMARY_TYPE_1            ENERGY
OUT_SUMMARY_ENERGY_SOAK_1        NEGLIGIBLE
OUT_SUMMARY_ENERGY_BINS_1         0
OUT_SUMMARY_ENERGY_MAX_1          0

OUT_SUMMARY_NAME_2              summary.short
# OUT_SUMMARY_TYPE_2            ENERGY
OUT_SUMMARY_ENERGY_SOAK_2        SHORT

OUT_SUMMARY_NAME_3              summary.medium
# OUT_SUMMARY_TYPE_3            ENERGY
OUT_SUMMARY_ENERGY_SOAK_3        MEDIUM

OUT_SUMMARY_NAME_4              summary.long
# OUT_SUMMARY_TYPE_4            ENERGY
OUT_SUMMARY_ENERGY_SOAK_4        LONG

OUT_SUMMARY_NAME_5              summary.auto
# OUT_SUMMARY_TYPE_5            VELOCITY
OUT_SUMMARY_VEHICLE_TYPE_5       AUTO

OUT_SUMMARY_NAME_6              summary.bus
# OUT_SUMMARY_TYPE_6            VELOCITY
OUT_SUMMARY_VEHICLE_TYPE_6       BUS

OUT_SUMMARY_NAME_7              summary.truck
# OUT_SUMMARY_TYPE_7            VELOCITY
OUT_SUMMARY_VEHICLE_TYPE_7       TRUCK

OUT_SUMMARY_NAME_8              summary.dens

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```

OUT_SUMMARY_TYPE_8           TIME; DENSITY
OUT_SUMMARY_BEGIN_TIME_8     0
OUT_SUMMARY_END_TIME_8       86400
OUT_SUMMARY_TIME_STEP_8      900
OUT_SUMMARY_SAMPLE_TIME_8    60
OUT_SUMMARY_BOX_LENGTH_8     97.5
OUT_SUMMARY_FILTER_8         COUNT>0

OUT_SUMMARY_NAME_9           cutline.auto
OUT_SUMMARY_TYPE_9           TIME
OUT_SUMMARY_BEGIN_TIME_9     0
OUT_SUMMARY_END_TIME_9       86400
OUT_SUMMARY_TIME_STEP_9      900
OUT_SUMMARY_SAMPLE_TIME_9    15
OUT_SUMMARY_BOX_LENGTH_9     97.5
OUT_SUMMARY_LINKS_9          $TRANSIMS_ROOT/data/cutlines-2001-03-22.txt
OUT_SUMMARY_VEHICLE_TYPE_9   AUTO
OUT_SUMMARY_FILTER_9         COUNT>0
OUT_SUMMARY_SUPPRESS_9        LANE;SUM;VSUM;SUMSQUARES;VSUMSQUARES;TURN;VCOUNT

OUT_SUMMARY_NAME_10          cutline.truck
OUT_SUMMARY_TYPE_10          TIME
OUT_SUMMARY_BEGIN_TIME_10    0
OUT_SUMMARY_END_TIME_10      86400
OUT_SUMMARY_TIME_STEP_10     900
OUT_SUMMARY_SAMPLE_TIME_10   15
OUT_SUMMARY_BOX_LENGTH_10    97.5
OUT_SUMMARY_LINKS_10          $TRANSIMS_ROOT/data/cutlines-2001-03-22.txt
OUT_SUMMARY_VEHICLE_TYPE_10  TRUCK
OUT_SUMMARY_FILTER_10         COUNT>0
OUT_SUMMARY_SUPPRESS_10       LANE;SUM;VSUM;SUMSQUARES;VSUMSQUARES;TURN;VCOUNT

OUT_EVENT_NAME_1              event
# OUT_EVENT_TYPE_1            TRAVELER
OUT_EVENT_FILTER_1            VEHTYPE==1;STATUS @ [16900|19716|25860]
OUT_EVENT_SUPPRESS_1           TRAVELER;TRIP;LEG;ROUTE;STOPS;YIELDS;SIGNALS;TURN;STOPPED;ACCELS;TIMESUM;DISTANCESUM;USER;ANOMALY;LINK;NODE;VSUBTYPE

OUT_EVENT_NAME_2              endsim
OUT_EVENT_TYPE_2              TRAVELER
OUT_EVENT_SUPPRESS_2           ACCELS;LEG;ROUTE;SIGNALS;STOPS;TRIP;TURN;VEHTYPE;VSUBTYPE;YIELDS
OUT_EVENT_FILTER_2              STATUS&33554432
OUT_EVENT_BEGIN_TIME_2         86398
OUT_EVENT_END_TIME_2           86402

OUT_EVENT_NAME_3              endtrip
OUT_EVENT_TYPE_3              TRAVELER
OUT_EVENT_SUPPRESS_3           ACCELS;LEG;ROUTE;SIGNALS;STOPS;STOPPED;TURN;USER;VEHICLE;VEHTYPE;VSUBTYPE;YIELDS
OUT_EVENT_FILTER_3              STATUS&8; STATUS!&4
OUT_EVENT_BEGIN_TIME_3         0
OUT_EVENT_END_TIME_3           86402

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```

OUT_EVENT_NAME_4           anomaly.offplan
OUT_EVENT_TYPE_4           TRAVELER
OUT_EVENT_SUPPRESS_4        ACCELS;ROUTE;SIGNALS;STOPS;TURN;USER;VEHTYPE;VSUBTYPE;YIELDS
OUT_EVENT_FILTER_4          STATUS&8388608; ANOMALY==1
OUT_EVENT_BEGIN_TIME_4      0
OUT_EVENT_END_TIME_4        86402

OUT_EVENT_NAME_5           anomaly.other
OUT_EVENT_TYPE_5           TRAVELER
OUT_EVENT_SUPPRESS_5        ACCELS;LEG;ROUTE;SIGNALS;STOPS;TRIP;TURN;USER;VEHTYPE;VSUBTYPE;YIELDS
OUT_EVENT_FILTER_5          ANOMALY>2; ANOMALY<8
OUT_EVENT_BEGIN_TIME_5      0
OUT_EVENT_END_TIME_5        86402

OUT_EVENT_NAME_6           allstr.times
# OUT_EVENT_TYPE_6          TRAVELER
OUT_EVENT_SUPPRESS_6        DISTANCESUM;LEG;LOCATION;NODE;ROUTE;SIGNALS;STOPS;TRIP;VEHICLE;VEHTYPE;VSUBTYPE;YIELDS
OUT_EVENT_FILTER_6          STATUS&8;STATUS!&4 # end of leg
OUT_EVENT_BEGIN_TIME_6      0
OUT_EVENT_END_TIME_6        86402

OUT_EVENT_NAME_7           cutline.transit
OUT_EVENT_TYPE_7           TRAVELER
OUT_EVENT_SUPPRESS_7        ACCELS;ANOMALY;DISTANCESUM;LEG;LOCATION;SIGNALS;STATUS;STOPS;STOPPED;TIMESUM;TRIP;TURN;USER;VSUBTYPE;YIELDS
OUT_EVENT_FILTER_7          STATUS&2;STATUS&1;ROUTE>0    # On link and change in on link => entering link
OUT_EVENT_BEGIN_TIME_7      0
OUT_EVENT_END_TIME_7        86402
OUT_EVENT_LINKS_7           $TRANSIMS_ROOT/data/cutlines-2001-03-22.txt

OUT_EVENT_NAME_8           allstr.debug
# OUT_EVENT_TYPE_8          TRAVELER
OUT_EVENT_SUPPRESS_8        ACCELS;LEG;ROUTE;SIGNALS;STOPS;TURN;VEHTYPE;VSUBTYPE;YIELDS
OUT_EVENT_FILTER_8          TRIP>1
OUT_EVENT_BEGIN_TIME_8      0
OUT_EVENT_END_TIME_8        86402

# Synpop Keys
SYNPOP_BASE_DIRECTORY       $TRANSIMS_ROOT/.....
SYNPOP_STF_INFO_DIRECTORY   $TRANSIMS_ROOT/.....data/synpop/Parep2/stf
SYNPOP_STF_DATA_DIRECTORY   $TRANSIMS_ROOT/.....data/synpop/stf

SYNPOP_MABLE_FILE           $TRANSIMS_ROOT/.....data/synpop/mable/geocorr.csv
SYNPOP_PUMS_DIRECTORY       $TRANSIMS_ROOT/.....data/synpop/pums
SYNPOP_MARGINALS_FILE       $TRANSIMS_ROOT/.....data/synpop/marginals.txt
SYNPOP_HOUSEHOLD_DEMOGRAPHICS PUMSHH;R18UNDR;RWRKR89;RHHINC;TENURE;VALUE

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SYNPOP_PERSON_DEMOGRAPHICS          AGE;RELAT1;SEX;WORK89;YEARSCH;INDUSTRY;OCCUP;RPINCOME;HOURS;MOBILIM;MEANS;RIDERS;DEPART;TRAVTIME

SYNPOP_TEMP_DIRECTORY              tmp
SYNPOP_KEEP_TEMP_FILES             0
SYNPOP_RANDOM_SEED                1234567

POP_BASELINE_FILE                  $TRANSIMS_ROOT/population/pop_base
POP_LOCATED_FILE                   $TRANSIMS_ROOT/population/pop_located
POP_STARTING_VEHICLE_ID            5000
POP_STARTING_HH_ID                 1
POP_STARTING_PERSON_ID             1
POP_RANDOM_SEED                   3456789

ACT_HOME_HEADER                     Home
ACT_WORK_HEADER                     Work
ACT_ACCESS_HEADER                   Tran_Dist
ACT_BLOCKGROUP_HEADER               BLOCKGROUP
ACT_TRACT_HEADER                    TRACT
ACT_FEEDBACK_FILE                  $TRANSIMS_ROOT/activity/activity.feedback
#ACT_MULTI_FAMILY_HEADER            MFR
ACT_PARTIAL_OUTPUT                 $TRANSIMS_ROOT/activity/activities.partial
ACT_POPULATION_FILE                $TRANSIMS_ROOT/population/popConverted
ACT_PROBLEM_FILE                   $TRANSIMS_ROOT/activity/act.problems
ACT_RANDOM_SEED                    985456379
ACT_SHARED_RIDE_TIME_MIN           1
ACT_SHARED_RIDE_TIME_RANGE_MEDIUM  1
ACT_SHARED_RIDE_TIME_RANGE_MAX     1
ACT_SHARED_RIDE_DISTANCE_RANGE     10
ACT_TRAVEL_TIME_INTERVALS_FILE    $TRANSIMS_ROOT/data/time_intervals
ACT_TRAVEL_TIMES_FILE              $TRANSIMS_ROOT/activity/travel_times
#ACT_TRAVEL_TIME_FILE_MODES        3;4
ACT_MINIMUM_ADULT_AGE              16

ACT_DECISION_TREE_FILE             $TRANSIMS_ROOT/data/decision_tree
ACT_MODE_WEIGHT_FILE               $TRANSIMS_ROOT/data/mode_weight
ACT_ZONE_INFO_FILE                 $TRANSIMS_ROOT/data/zonedata
ACT_SURVEY_ACTIVITY_FILE           $TRANSIMS_ROOT/data/survey_activities
ACT_SURVEY_HOUSEHOLD_FILE          $TRANSIMS_ROOT/data/survey_households
ACT_SURVEY_WEIGHTS_FILE            $TRANSIMS_ROOT/data/survey_weights_25

ACT_INITIAL_HOME_TIME_RANGE        0.75
ACT_OUT_OF_HOME_TIME_RANGE         0.5
ACT_HOME_DURING_DAY_TIME_RANGE    0.75
ACT_WORK_TIME_RANGE                0.25
ACT_END_OF_DAY_TIME_RANGE          0.75
ACT_MAX_END_TIME                  36.0
ACT_DEFAULT_CAR_SPEED              15.0
ACT_DEFAULT_TRANSIT_SPEED          10.0
ACT_BICYCLE_MODE                  7
ACT_WALKING_MODE                  1

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ACT_MAGIC_MOVE_MODE          8
ACT_DEFAULT_TRANSIT_MODE     3
ACT_LOCATION_CHOICE_EXPONENT 0.5
ACT_DEFAULT_INTRAZONE_DISTANCE 1500

ACT_AUTOMOBILE_MODE_1        2
ACT_AUTOMOBILE_MODE_2        5
ACT_AUTOMOBILE_MODE_3        6
ACT_ADJUST_TIMES             0

ACT_PERSON_DEMOG_RELATION_HEADER RELATE
ACT_PERSON_DEMOG_WORKER_HEADER WORK
ACT_PERSON_DEMOG_GENDER_HEADER GENDER
ACT_PERSON_DEMOG_AGE_HEADER AGE
ACT_REQUIRED_HH_DEMOG_1       HHSIZE
ACT_REQUIRED_HH_DEMOG_2       INCOME
ACT_REQUIRED_HH_DEMOG_3       ALT5
ACT_REQUIRED_HH_DEMOG_4       A5TO15
ACT_REQUIRED_HH_DEMOG_5       A26TO45
ACT_REQUIRED_HH_DEMOG_6       HHAGE
ACT_REQUIRED_HH_DEMOG_7       WORKERS
ACT_REQUIRED_HH_DEMOG_8       HDENSTY
ACT_HHDENSITY_HEADER         HH_Acre

ACT_HOME_ACTIVITY_TYPE        0
ACT_WORK_ACTIVITY_TYPE        1
ACT_SCHOOL_ACTIVITY_TYPE      7

# School specifications: age ranges, zone and location attractor values.

# Elementary and mid school
ACT SCHOOL_LOWER_BOUND_1      5
ACT SCHOOL_UPPER_BOUND_1      15

# High school
ACT SCHOOL_LOWER_BOUND_2      16
ACT SCHOOL_UPPER_BOUND_2      18

# Elementary and high school
ACT SCHOOL_LOWER_BOUND_3      5
ACT SCHOOL_UPPER_BOUND_3      18

# Elementary and mid school
ACT SCHOOL_ZONE_ATTRACTOR_VALUE_1 1

# High school
ACT SCHOOL_ZONE_ATTRACTOR_VALUE_2 2

# Both elementary/mid and high school
ACT SCHOOL_ZONE_ATTRACTOR_VALUE_3 3

# Elementary and mid school

```

```

ACT_SCHOOL_LOCATION_ATTRACTOR_VALUE_1      1
# High school
ACT_SCHOOL_LOCATION_ATTRACTOR_VALUE_2      2
# Both elementary/mid and high school
ACT_SCHOOL_LOCATION_ATTRACTOR_VALUE_3      3

# Anchor Activity types
# Home
ACT_ANCHOR_ACTIVITY_TYPE_1                  0
# Work
ACT_ANCHOR_ACTIVITY_TYPE_2                  1
# School
ACT_ANCHOR_ACTIVITY_TYPE_3                  7
# College
ACT_ANCHOR_ACTIVITY_TYPE_4                  8

ACT_ACTIVITY_TYPE_1                         0
ACT_ZONE_HEADER_1                          Home
ACT_LOCATION_HEADER_1                     Home
ACT_PRIORITY_1                            2
ACT_TIME_PRIORITY_1                       3

ACT_ACTIVITY_TYPE_2                         1
ACT_ZONE_HEADER_2                          Work
ACT_LOCATION_HEADER_2                     Work
ACT_PRIORITY_2                            2
ACT_TIME_PRIORITY_2                       3

ACT_ACTIVITY_TYPE_3                         2
ACT_ZONE_HEADER_3                          Shop
ACT_LOCATION_HEADER_3                     Shop
ACT_PRIORITY_3                            7
ACT_TIME_PRIORITY_3                       0

ACT_ACTIVITY_TYPE_4                         3
ACT_ZONE_HEADER_4                          Visit
ACT_LOCATION_HEADER_4                     Visit
ACT_PRIORITY_4                            4
ACT_TIME_PRIORITY_4                       3

ACT_ACTIVITY_TYPE_5                         4
ACT_ZONE_HEADER_5                          Social
ACT_LOCATION_HEADER_5                     Social
ACT_PRIORITY_5                            4
ACT_TIME_PRIORITY_5                       5

ACT_ACTIVITY_TYPE_6                         5
ACT_ZONE_HEADER_6                          Other
ACT_LOCATION_HEADER_6                     Other

```

```

ACT_PRIORITY_6          8
ACT_TIME_PRIORITY_6     0

ACT_ACTIVITY_TYPE_7     6
ACT_ZONE_HEADER_7       Serve
ACT_LOCATION_HEADER_7   Serve
ACT_PRIORITY_7          4
ACT_TIME_PRIORITY_7     1

ACT_ACTIVITY_TYPE_8     7
ACT_ZONE_HEADER_8       School
ACT_LOCATION_HEADER_8   School
ACT_PRIORITY_8          3
ACT_TIME_PRIORITY_8     3

ACT_ACTIVITY_TYPE_9     8
ACT_ZONE_HEADER_9       College
ACT_LOCATION_HEADER_9   College
ACT_PRIORITY_9          3
ACT_TIME_PRIORITY_9     3

# TripTable Activity Generator
ACT_TAZ_HEADER           TAZ

# trucks
ACT_TRIPTABLE_STARTING_HH_ID    2000000
ACT_TRIPTABLE_STARTING_PERSON_ID 5000000
ACT_TRIPTABLE_STARTING_VEHICLE_ID 5000000
ACT_TRIPTABLE_FILE              $TRANSIMS_ROOT/data/allstr.truck_tripstable
ACT_TRIPTIME_FILE               $TRANSIMS_ROOT/data/allstr.truck_timetable
ACT_TRIP_TABLE_OUTPUT            $TRANSIMS_ROOT/trucks/activities.trucks
TRIP_TABLE_VEHICLE_FILE         $TRANSIMS_ROOT/trucks/vehicles.trucks
POP_TRIPTABLE_FILE              $TRANSIMS_ROOT/trucks/population.trucks
VEH_VEHICLE_TYPE                2

# Itinerants
#VEH_VEHICLE_TYPE             1

CA_SIM_STEPS                 86400
CA_SIM_START_HOUR              0
CA_SIM_START_MINUTE             0
CA_SIM_START_SECOND             0
CA_LOOK_AHEAD_CELLS            35
# CA_LOOK_AHEAD_CELLS           0
CA_NO_TRANSIT                  0
CA_TRANSIT_INITIAL_WAIT        4
CA_EXIT_TRANSIT_DELAY           1
CA_ENTER_TRANSIT_DELAY          2
CA_SLAVE_MESSAGE_LEVEL          1
CA_MASTER_MESSAGE_LEVEL         1
CA_USE_NETWORK_CACHE            1

```

```

CA_PARALLEL_LOG           1
CA_SHORT_SOAK_TIME        600    # 10 minutes
CA_MEDIUM_SOAK_TIME       1800   # 30 minutes
CA_LONG_SOAK_TIME         9000   # 2.5 hours
CA_OFF_PLAN_EXIT_TIME    10
CA_MAX_WAITING_SECONDS   86401
CA_SEQUENCE_LENGTH         1
CA_BROADCAST_ACC_CPN_MAP  1
CA_BROADCAST_TRAVELERS   0
CA_LATE_BOUNDARY_RECEPTION 1
CA_USE_PARTITIONED_ROUTE_FILES 1
CA_HELP_LOST_TRAVELERS   1

PAR_RTM_INPUT_FILE        $TRANSIMS_ROOT/data/run_time_monitor.prev
PAR_RTM_PENALTY_FACTOR    100.0
RTM_FEEDBACK_FILE          run_time_monitor
RTM_SAMPLE_INTERVAL         600

#PAR_SLAVES                31
PAR_SLAVES                 47
PAR_MIN_CELLS_TO_SPLIT     10
PAR_SAVE_PARTITION          1
PAR_USE_METIS_PARTITION    1
PAR_USE_OB_PARTITION        0
#PAR_PARTITION_FILE         $TRANSIMS_ROOT/data/partition.31
PAR_PARTITION_FILE          $TRANSIMS_ROOT/data/partition.61

LOG_CONTROL                1
LOG_DISTRIBUTION           0
LOG_IO                      0
LOG_IO_DETAIL               0
LOG_LOAD_NETWORK             0
LOG_PARTITIONING             0
LOG_ROUTING                 1
LOG_ROUTING_DETAIL           0      # use to get performance information into logfile
LOG_TIMESTEP                1
LOG_TIMESTEP_DETAIL          0
LOG_TIMING                  1
LOG_TRANSIT                 0
LOG_VEHICLES                 0
LOG_LOG_CONFIG                0
LOG_RUNTIMEMONITOR           0
LOG_BOUNDARIES                0
LOG_BOUNDARIES_DETAIL          0
LOG_ROUTING_PROBLEM           0
LOG_PARALLEL                  0
LOG_PAROUT                   0
LOG_MIGRATION                 0
LOG_MIGRATION_DETAIL           0
LOG_MUTEX                     0
LOG_MUTEX_DETAIL                0

```

```

LOG_SELECTOR          0
LOG_SELECTOR_DETAIL  0
LOG_SYNPOP           1
LOG_ACT               1
LOG_ACTL              1
LOG_POPL              1

VEH_GENERATE_FOR_DRIVERS    1
VEH_DRIVER_MINIMUM_AGE      1
VEH_AGE_DEMOGRAPHIC        AGE
VEH_RANDOM_SEED            985456379

# Selector Keys
SEL_MESSAGE_LEVEL          0
SEL_ITDB_FILE               $TRANSIMS_ROOT/itdb
SEL_POPULATION_FILE         $TRANSIMS_ROOT/population/popConverted

# Needed for PlanStat
SEL_USE_START_MODE_PREF    1
SEL_USE_START_OTHER_PARTICIPANTS 1
SEL_USE_END_MODE_PREF       1
SEL_USE_END_OTHER_PARTICIPANTS 1
SEL_USE_MODE_STRING         1

# Needed for ZoneTravelTimeGenerator
SEL_USE_DEP_TIME             1
SEL_USE_START_ACC             1
SEL_USE_END_ACC               1
SEL_USE_DURATION              1
SEL_USE_START_REGION          1
SEL_USE_END_REGION             1
SEL_USE_END_MODE_PREF         1
SEL_USE_MODE_STRING           1
SEL_UAZ_FILE_1                $TRANSIMS_ROOT/network/8_districts.polygons
SEL_UAZ_FILE_2                $TRANSIMS_ROOT/network/20_districts.polygons

```

2. SCRIPTS

2.1 RoutePop

```
#!/bin/csh

# Generate routes in parallel for population activities. The script
# exits after the Router hash been started on each CPU. The scripts
# FinishRouter should be run after all of these have exited. See
# MonitorRouter.pl

setenv SCENARIO $TRANSIMS_HOME/scenarios/allstr
setenv LOGDIR $SCENARIO/log
setenv CFGFILE $SCENARIO/allstr.cfg
setenv BINDIR $TRANSIMS_HOME/bin
setenv SCRIPTDIR $SCENARIO/scripts
setenv NUMCPUS 60

# The indicies for activities and vehicles must be created before the
# Router is started.

cd $SCENARIO/vehicle echo "IndexVehFile" >&
$LOGDIR/router.log (time $BINDIR/IndexVehFile
$SCENARIO/vehicle/vehicles.pop ) >>& $LOGDIR/router.log

cd $SCENARIO/activity
echo "IndexActivityFile" >>& $LOGDIR/router.log
(time $BINDIR/IndexActivityFile $SCENARIO/activity/activities) >>& $LOGDIR/router.log

mkdir -p $SCENARIO/plans
mkdir -p $SCENARIO/router

cd $SCENARIO
echo "MakeHouseholdFile" >>& $LOGDIR/router.log
(time $BINDIR/MakeHouseholdFile $CFGFILE $NUMCPUS ) >>& $LOGDIR/router.log
# RunRouter arguments are 0, numcpus-1
@ NUMCPUS--
$SCRIPTDIR/RunRouter $CFGFILE 0 $NUMCPUS
```

2.2 RouteTrucks

```
#!/bin/csh

# Generate routes, plan statistics, and zone travel times for the
# truck trip table activities

setenv SCENARIO $TRANSIMS_HOME/scenarios/allstr
setenv LOGDIR $SCENARIO/log
setenv LOGFILE $LOGDIR/router_trucks.log
setenv CFGFILE $SCENARIO/config_files/allstr_router_trucks.cfg
setenv PLANFILE $SCENARIO/trucks/plans.trucks

mkdir -p $LOGDIR
cd $SCENARIO

echo "Running Router " > $LOGFILE
( time $TRANSIMS_HOME/bin/Router $CFGFILE ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running PlanFilter " >> $LOGFILE
( time $TRANSIMS_HOME/bin/PlanFilter -v $CFGFILE -o $PLANFILE.filter $PLANFILE > $PLANFILE.err ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running Collator " >> $LOGFILE
( time $TRANSIMS_HOME/bin/Collator $CFGFILE ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running PlanStat " >> $LOGFILE
( time $TRANSIMS_HOME/bin/PlanStat $CFGFILE > $SCENARIO/trucks/planstat_trucks.txt ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running ZoneTravelTimeGenerator " >> $LOGFILE
( time $TRANSIMS_HOME/bin/ZoneTravelTimeGenerator $CFGFILE trip ) >>& $LOGFILE
echo " " >> $LOGFILE
```

2.3 RouteltinAm

```
#!/bin/csh

# Generate routes, plan statistics, and zone travel times for the
# AM itinerant trip table activities

setenv SCENARIO $TRANSIMS_HOME/scenarios/allstr
setenv LOGDIR $SCENARIO/log
setenv LOGFILE $LOGDIR/router_am.log
setenv CFGFILE $SCENARIO/config_files/allstr_router_am.cfg
setenv PLANFILE $SCENARIO/itinerants/plans.am
setenv ECHO

mkdir -p $LOGDIR
cd $SCENARIO

echo "Running Router " > $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/Router $CFGFILE ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running PlanFilter " >> $LOGFILE
( time $TRANSIMS_HOME/bin/PlanFilter -v $CFGFILE -o $PLANFILE.filter $PLANFILE > $PLANFILE.err ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running Collator " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/Collator $CFGFILE ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running PlanStat " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/PlanStat $CFGFILE > $SCENARIO/itinerants/planstat_am.txt ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running ZoneTravelTimeGenerator " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/ZoneTravelTimeGenerator $CFGFILE trip ) >>& $LOGFILE
echo " " >> $LOGFILE
```

2.4 RouteltinMid

```
#!/bin/csh

# Generate routes, plan statistics, and zone travel times for the
# Midday itinerant trip table activities

setenv SCENARIO $TRANSIMS_HOME/scenarios/allstr
setenv LOGDIR $SCENARIO/log
setenv LOGFILE $LOGDIR/router_mid.log
setenv CFGFILE $SCENARIO/config_files/allstr_router_mid.cfg
setenv SCRIPTDIR $SCENARIO/scripts
setenv BINDIR $TRANSIMS_HOME/bin
setenv PLANFILE $SCENARIO/itinerants/plans.mid
setenv ECHO

mkdir -p $LOGDIR
cd $SCENARIO

cd $SCENARIO/vehicle
echo "IndexVehFile" >& $LOGFILE
(time $BINDIR/IndexVehFile $SCENARIO/itinerants/vehicles.mid ) >>& $LOGFILE

cd $SCENARIO/activity
echo "IndexActivityFile" >>& $LOGFILE
(time $BINDIR/IndexActivityFile $SCENARIO/itinerants/activities.mid) >>& $LOGFILE

mkdir -p $SCENARIO/plans
mkdir -p $SCENARIO/router

echo "Running Router " >>& $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/Router $CFGFILE ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running PlanFilter " >> $LOGFILE
( time $TRANSIMS_HOME/bin/PlanFilter -v $CFGFILE -o $PLANFILE.filter $PLANFILE > $PLANFILE.err ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running Collator " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/Collator $CFGFILE ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running PlanStat " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/PlanStat $CFGFILE > $SCENARIO/itinerants/planstat_mid.txt ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running ZoneTravelTimeGenerator " >> $LOGFILE
```

```
( time $ECHO $TRANSIMS_HOME/bin/ZoneTravelTimeGenerator $CFGFILE trip ) >>& $LOGFILE
echo " " >> $LOGFILE
```

2.5 RouteltinPM

```
#!/bin/csh

# Generate routes, plan statistics, and zone travel times for the
# PM itinerant trip table activities

setenv SCENARIO $TRANSIMS_HOME/scenarios/allstr
setenv LOGDIR $SCENARIO/log
setenv LOGFILE $LOGDIR/router_pm.log
setenv CFGFILE $SCENARIO/config_files/allstr_router_pm.cfg
setenv PLANFILE $SCENARIO/itinerants/plans.pm
setenv ECHO

mkdir -p $LOGDIR
cd $SCENARIO

echo "Running Router " > $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/Router $CFGFILE ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running PlanFilter " >> $LOGFILE
( time $TRANSIMS_HOME/bin/PlanFilter -v $CFGFILE -o $PLANFILE.filter $PLANFILE > $PLANFILE.err ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running Collator " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/Collator $CFGFILE ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running PlanStat " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/PlanStat $CFGFILE > $SCENARIO/itinerants/planstat_pm.txt ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running ZoneTravelTimeGenerator " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/ZoneTravelTimeGenerator $CFGFILE trip ) >>& $LOGFILE
echo " " >> $LOGFILE
```

2.6 RouteltinRest

```
#!/bin/csh

# Generate routes, plan statistics, and zone travel times for the
# Rest itinerant trip table activities

setenv SCENARIO $TRANSIMS_HOME/scenarios/allstr
setenv LOGDIR $SCENARIO/log
setenv LOGFILE $LOGDIR/router_rest.log
setenv CFGFILE $SCENARIO/config_files/allstr_router_rest.cfg
setenv PLANFILE $SCENARIO/itinerants/plans.rest
setenv ECHO

mkdir -p $LOGDIR
cd $SCENARIO

echo "Running Router " > $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/Router $CFGFILE ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running PlanFilter " >> $LOGFILE
( time $TRANSIMS_HOME/bin/PlanFilter -v $CFGFILE -o $PLANFILE.filter $PLANFILE > $PLANFILE.err ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running Collator " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/Collator $CFGFILE ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running PlanStat " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/PlanStat $CFGFILE > $SCENARIO/itinerants/planstat_rest.txt ) >>& $LOGFILE
echo " " >> $LOGFILE

echo "Running ZoneTravelTimeGenerator " >> $LOGFILE
( time $ECHO $TRANSIMS_HOME/bin/ZoneTravelTimeGenerator $CFGFILE trip ) >>& $LOGFILE
echo " " >> $LOGFILE
```

2.7 FinishRouter

```
#!/bin/csh

# Run the collator, planstat, and zone travel time generator on the
# generated population plans.

setenv SCENARIO $TRANSIMS_HOME/scenarios/allstr
setenv LOGDIR $SCENARIO/log
setenv CFGFILE $SCENARIO/allstr.cfg
setenv BINDIR $TRANSIMS_HOME/bin
setenv SCRIPTDIR $TRANSIMS_HOME/scripts
setenv PLANDIR $SCENARIO/plans

cd $PLANDIR
( time $BINDIR/IndexPlanFile plans plans.tAA) >>& $LOGDIR/collator.log
foreach f (plans.tA[B-Z] plans.tB?)
  ( time $BINDIR/IndexPlanFile --add plans $f ) >>& $LOGDIR/collator.log
end

cd $SCENARIO
echo "Running Collator " >> $LOGDIR/collator.log
( time $BINDIR/Collator $CFGFILE ) >>& $LOGDIR/collator.log
echo " " >> $LOGDIR/collator.log

echo "Running PlanStat " >> $LOGDIR/collator.log
( time $BINDIR/PlanStat $CFGFILE > $SCENARIO/plans/planstat.txt ) >>& $LOGDIR/collator.log
echo " " >> $LOGDIR/collator.log

echo "Running ZoneTravelTimeGenerator " >> $LOGDIR/collator.log
( time $BINDIR/ZoneTravelTimeGenerator $CFGFILE trip ) >>& $LOGDIR/collator.log
echo " " >> $LOGDIR/collator.log
```

2.8 RunRouter

```
#!/bin/csh

# Run the router in parallel on several nodes.
# Arguments are: <RS> <config file> <start node> <end node>
# RS is the route set to create (e.g. RS10)
# Node numbers refer to the position in the machines file. Each
# process's output is collected into logfile:
# router/router.log.tnn.yymmdd.hh.mm, where nn is the Base26 id of the
# process, yymmdd is the current date, and hh.mm is the current time.
# The node each process starts on is given in the file
# router/router.log.yymmdd.hh.mm

set fb=$1
set cfgfile=$2
set start=$3
set end=$4
set SCENARIO=$TRANSIMS_HOME/scenarios/allstr
set routerdir=$SCENARIO/router/$1
set DATE=`date +%y%m%d.%H:%M`

if ( $#argv != 4 ) then
    echo "Usage: $0 <run id> <config file> <start node> <end node>"
    exit
endif

cd $SCENARIO
date > $routerdir/router.log.$DATE

set num=0
echo "Starting with CPU $start"
foreach f (`tail +3 $SCENARIO/config_files/machines`)
#foreach f (`tail +3 $TRANSIMS_HOME/config/machines`)
#foreach f (`tail +3 $SCENARIO/config_files/machines.FB1`)
    set result=`ping -q -c 2 -w 5 $f | grep "0 packets received"`
    if ( "X$result" == "X" ) then
        if ($num >= $start && $num <= $end) then
            echo $num $f `"$TRANSIMS_HOME/bin/10to26 $num`"
            echo $f $num `"$TRANSIMS_HOME/bin/10to26 $num`">>& $routerdir/router.log.$DATE
            ssh -n -f $f $TRANSIMS_HOME/bin/Router $cfgfile $num >& $routerdir/router.log.t`"$TRANSIMS_HOME/bin/10to26 $num`.$DATE
#
            sleep 30
        endif
    @ num++
    else
        echo "Skipping $f"
    endif
end
```

2.9 RunRouter3

```
#!/bin/csh

# Run the given router processes in parallel on specific nodes. Used to restart the router.
# Arguments are: <run id> <config file> <xx1> <node1> <xx2> <node2> ...

# Restart the router processes corresponding to the given base26
# designations given as arguments, on the nodes given.

set fb=$1
set cfgfile=$2
set SCENARIO=$TRANSIMS_HOME/scenarios/allstr
set routerdir=$SCENARIO/router/$fb
set DATE=`date +%y%m%d.%H:%M`

if ( $#argv < 4 ) then
    echo "Usage: $0 <run id> <config file> <xx1> <node1> <xx2> <node2> ..."
    exit
endif

cd $SCENARIO
date > $routerdir/router.log.$DATE

set num=0
shift;shift;
foreach f (`tail +3 $TRANSIMS_HOME/config/machines`)
    set result=`/bin/ping -q -c 2 -w 5 $f | grep "0 packets received"`
    if ( "$result" == "X" ) then
        if ( "X$f" != "X" ) then
            set num=`$TRANSIMS_HOME/bin/26to10 $1`
            set node=$2
            shift;shift;
            echo $num $node `"$TRANSIMS_HOME/bin/10to26 $num`"
            echo $node $num `"$TRANSIMS_HOME/bin/10to26 $num`" >>& $routerdir/router.log.$DATE
            ssh -n -f $node $TRANSIMS_HOME/bin/Router $cfgfile $num >& $routerdir/router.log.t`"$TRANSIMS_HOME/bin/10to26 $num`.DATE
        else
            exit;
        endif
    endif
else
    echo "Skipping $f"
endif
end
```